Name:
Student University Roll No.:

Printed Pages: 1

School of Engineering
Second Sessional Examination, Odd Semester (AS: 2022-23)
B. Tech: CSE Year: 3rd Year
Semester: 5th Sem.
Course Title: Software Engineering
Course Code: BCS3501

Max Marks: 60
Time: 3hrs

Instructions if any: Read the question Carefully.

	SECTION "A" Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	What are the contents we should contain in the feasibility report?	CO1	1
b)	Write out the reasons for the Failure of Water Fall Model?	CO1	1
c)	Give 5 examples for data modeling.	CO3	1
d)	What are the Objectives of Requirement Analysis?	CO2	1
e)	List-out any five common principles of Agile approach	CO3	1
f)	Write down any 5 coding standards?	CO3	1
g)	How embrace change happens in extreme programming?	CO4	1
h)	List out the basic principles of software project scheduling?	CO4	1

	SECTION "B" Q.N.2. Attempt any two parts of the following:	Course Objective	Marks
a)	Explain in detail about spiral model with a neat sketch and describe why this model comes under both evolutionary and RAD models.	CO1	6
b)	Consider 7 functions with their estimated lines of code. Average productivity based on historical data is 620 LOC/pm and labour rate is Rs. 8000 per month. Find the total estimates	CO2	6
c)	What are the various types of [illegible] in software engineering?	CO3	6
d)	Explain the [illegible] based software development model with a neat sketch.	CO4	6

	SECTION "C"	Course Objective	Marks
Q.N.3. Attempt any two parts of the following:			
a)	Classify the following as functional and non-functional requirements for a banking system?	CO1	5
b)	Explain briefly the requirement engineering process with neat sketch and describe each process with an example.	CO1	5
c)	What is coupling? What are the various types of coupling?	CO1	5
Q.N.4. Attempt any two parts of the following:			
a)	What is the difference between SRS document and design document? What are the contents we should contain in the SRS document and design document.	CO2	5
b)	How function point analysis methodology is applied in estimation of software size? Explain. Why FPA methodology is better than LOC methodology?	CO2	5
c)	Consider the process of ordering a pizza over the phone. Draw the use case diagram and also sketch the activity diagram representing each step of the process, from the moment you pick up the phone to the point where you start eating the pizza. Include activities that others need to perform. Add exception handling to the activity diagram you developed. Consider at least two exceptions. (Ex : Delivery person wrote down wrong address, deliver person brings wrong pizza).	CO2	5